

The diagram illustrates a network architecture for a WLAN-AS (WLAN Access System) integrated with a core network and the Internet.

- Internet:** Represented by a cloud at the top left, connected to the AC via a solid line.
- Core Network (GSM/GPRS/UMTS):** Represented by a cloud at the top right, containing:
  - HLR (Home Location Register):** Connected to the AG via a dashed line labeled **MAP**.
  - AG (Authentication Gateway):** Connected to the AC via a solid line and to the WLAN-AS via a dashed line labeled **RADIUS**.
- WLAN-AS (WLAN Access System):** A large box containing:
  - AC (Access Controller):** A central box with:
    - Traffic routing & Control means:** Connected to the Internet and the AG.
    - PPPoE Server:** Connected to the AC and the WLAN.
    - RADIUS Client:** Connected to the AC and the WLAN-AS.
  - WLAN-AS Sub-system:** A box containing:
    - DHCP Server:** Connected to the WLAN.
    - RADIUS Server:** Connected to the AC and the WLAN.
- WLAN (Wireless Local Area Network):** Represented by a horizontal line with three **AP (Access Points)** connected to it.
- Client Equipment:** A laptop and a mobile phone (TE) are shown at the bottom, connected to the WLAN via a dashed line labeled **Radio (802.11b/WEP)**.
- Connections:**
  - EAP (Extensible Authentication Protocol):** Indicated by dashed lines between the TE and the AC, and between the AG and the WLAN-AS.
  - PPP encrypted:** Indicated by a dashed line between the TE and the AC.

FIG. -1-

2 (4)

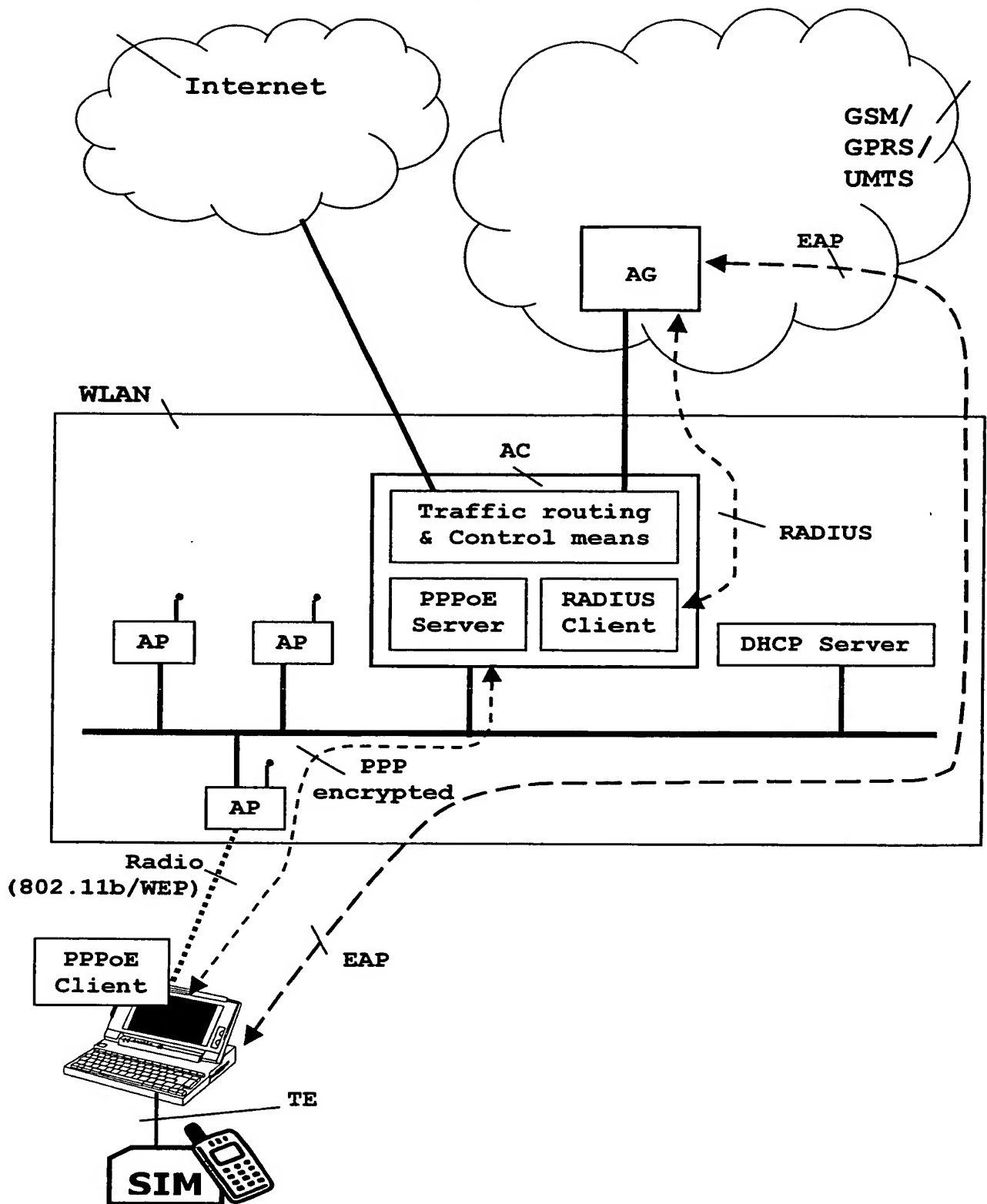
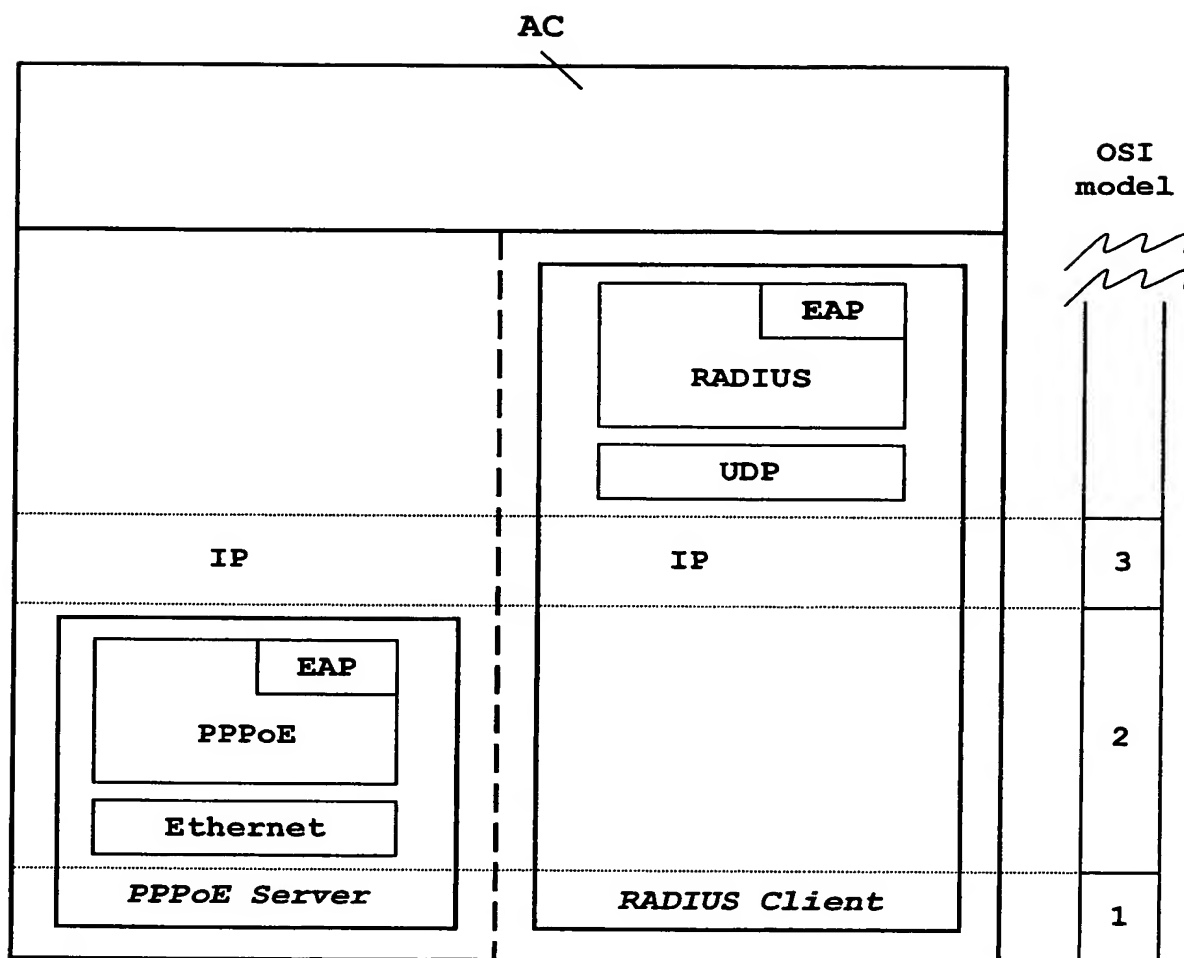


FIG.-2-

3(4)

FIG.-3-

4 (4)

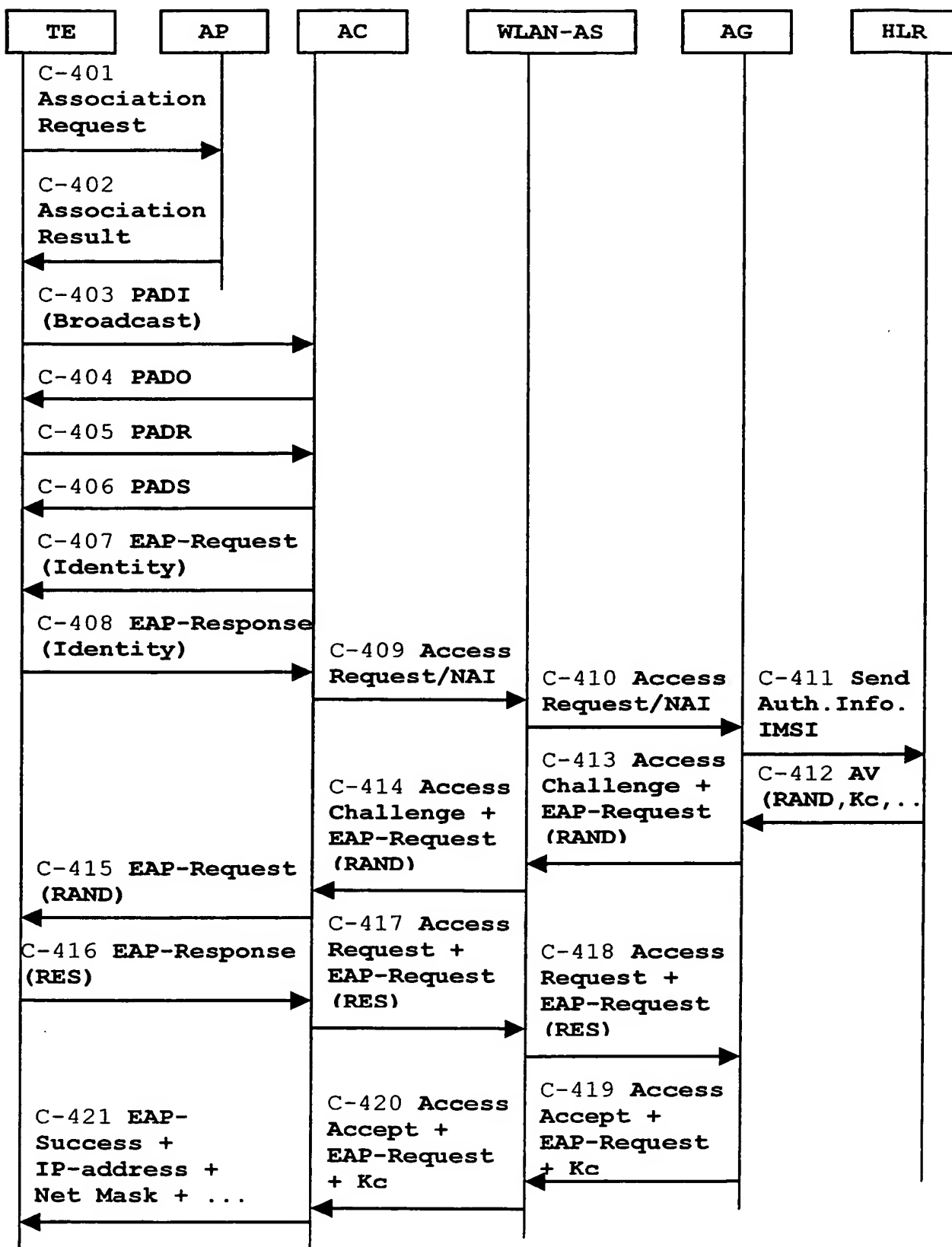


FIG. -4-